

ABSTRACT OF THE DISCLOSURE

Suppression of hematopoietic-specific SH2-containing inositol polyphosphatase

5 (SHIP) activity by genetic and pharmaceutical means is taught for suppression of rejection of, and prevention of graft-versus-host disease in, solid organ allografts or xenotransplants, and histo-incompatible marrow grafts. Also disclosed are methods for the screening of substances and genetic constructs that inhibit SHIP function in mammalian cells, and cell lines and transgenic animals that have the SHIP<sup>-/-</sup> phenotype.

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